

NAMES OF GROUP MEMBERS: _____

TEAM JOB: THE FRACTIONAL DISTILLATION TOWER

- 1. Describe how a fractional distillation tower works.**
- 2. Where are distillation towers to be found ?**
- 3. How much does it cost to construct a distillation tower?**
- 4. How much does it cost to keep a distillation tower running? How many employees does a typical tower employ?**
- 5. What are hydrocarbons?**
- 6. Construct and label a distillation tower on the classroom wall. Be sure to show the major temperature divisions.**
- 7. Be prepared to share your information with the class.**

NAMES OF TEAM MEMBERS _____

TEAM RESEARCH: ASPHALT

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

- 1. Describe what your product is.**
- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM RESEARCH: HEAVY OILS

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

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- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM RESEARCH: LUBRICATING OILS

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

- 1. Describe what your product is.**
- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM REASEARCH: DIESEL FUEL

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

- 1. Describe what your product is.**
- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM REASEARCH: KEROSENE

Your team is to research this product. Display your information is the correct place on the Fractional Distillation Tower on the classroom wall.

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You will be prepared to share your information to the class.

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- 2. Where in the distillation tower is this collected?**
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- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM RESEARCH: GASOLINE

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

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- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
- 5. What is the chemical definition of this product?**
- 6. What are the physical characteristics of this product?**
- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**

NAMES OF TEAM MEMBERS _____

TEAM RESEARCH: NAPHTHALENE

Your team is to research this product. Display your information in the correct place on the Fractional Distillation Tower on the classroom wall.

You may use drawings, diagrams, and charts to present your information.

You will be prepared to share your information to the class.

- 1. Describe what your product is.**
- 2. Where in the distillation tower is this collected?**
- 3. What State of Matter is this product when it is collected?**
- 4. What is the boiling range (Fahrenheit and Celsius) of this product?**
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- 7. What percent of the crude oil is this product?**
- 8. What are the uses for this product?**